

Developing AI-Powered Applications (AIDEV-201)

COURSE OVERVIEW

You will write custom GPTs for AI-assisted application development. You will gain a clear understanding of prompting techniques, building/configuring a custom GPT, and end-to-end application development with AI assistance. With over 39 labs and lectures, this hands-on intensive course is ideal for anyone needing to develop applications with AI assistance. Direct access to the AI platform is not required, as all traffic is managed through the training provider. An OpenAI Plus subscription is required, as the course content utilizes ChatGPT Premium features.

WHO WILL BENEFIT FROM THIS COURSE?

- Application Developers
- Project Managers
- System Engineers
- DevOps Management

PREREQUISITES

- Previous exposure to any programming language, preferably Python
- Experience writing prompts, or previous prompt engineering training/experience helpful, but not required

COURSE OBJECTIVES

- Develop and Write Code with AI
- Plan and Scope a Project with AI
- Build and Configure a Custom GPT
- Fine-Tune a Custom GPT
- Deploy an Application with AI Assistance
- Understand Large Language Models and Prompting
- Deploy Advanced Prompting Techniques
- Learn Complex Programming Concepts with AI
- Develop Instructions for a Custom GPT
- Defining Prompts and Parameters
- Introduction to AI-Assisted Application Development

COURSE OUTLINE

Prompt Engineering

- Lecture: Large Language Models
- Lecture: Writing Prompts for LLMs
- Lecture + Lab: Prompting an AI Model
- Lecture + Lab: Define Prompt Parameters: Task/Inputs/Outputs/Constraints/Style
- Lecture + Lab: Prompt Techniques: Chaining, Set Role, Feedback, Examples



Build your own AI Application Development Assistant

- Lecture: Build a Custom GPTs
- Lecture + Lab: Develop Instructions for Custom GPT
- Lecture + Lab: Fine Tune a Custom GPT
- Lecture + Lab: Deploy a Custom GPT
- Lecture + Lab: Update a Custom GPT
- Challenge: Class Project: Build your own GPT Powered AI Application Development Assistant

Class Project

- Challenge: Class Project: Build and Deploy an Application with your own GPT

Learn Programming Concepts with AI

- Lecture: Strategies for Learning with AI
- Lecture + Lab: Describe Complex Code Blocks
- Lecture + Lab: Ask the Code - Plugin Tools

Plan and Scope Application

- Lecture: Getting Started with AI
- Lecture + Lab: Build your Application Plan
- Challenge: Class Project: Scope out your Project /w AI

Code Interpreter (CI)

- Lecture: ChatGPT 4 Code Interpreter (CI)
- Lecture: Prompt Strategies to Generate Code
- Lecture + Lab: Generate Code using ChatGPT CI
- Lecture: Executing Code
- Lecture + Lab: Execute Code using ChatGPT CI
- Lecture: Programming Assistance
- Lecture + Lab: Debugging Code using ChatGPT CI
- Challenge: Class Project: Build/Develop your Project /w ChatGPT CI

Containerization and Microservices

- Lecture: Microservices Overview
- Lecture + Lab: Strangle a Monolithic Application /w AI
- Lecture + Lab: AI Assisted Docker Image Creation
- Lecture + Lab: Deploy an Application using Docker Compose and AI
- Lecture + Lab: Deploy an Application in Kubernetes /w AI
- Challenge: Class Project: Deploy your Application using AI Assistance

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What sets SLI apart is not only our immense selection of trainings options, but our convenient and consistent delivery system. No matter how complex your environment is or where you are located, SLI is sure to have a training solution that you can count on!

Premiere World Class Instruction Team

- All SLI instructors have a four-year technical degree, instructor level certifications and field consulting work experience
- Sunset Learning has won numerous Instructor Excellence and Instructor Quality Distinction awards since 2012

Enhanced Learning Experience

- The goal of our instructors during class is ensure students understand the material, guide them through our labs and encourage questions and interactive discussions.

Convenient and Reliable Training Experience

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- An enthusiastic student services team is available to answer any questions and ensure a quality training experience

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